CONSTRUCTION NOTES:

1. INSTALL NEW SIGNAL POLE FOUNDATION AND TYPE IIIA POLE. INSTALL TWO VEHICLE SIGNAL HEADS, ONE EMERGENCY VEHICLE PRE-EMPTION DETECTOR, TENONS FOR FUTURE USE, SIGN R10-12, SIGN R3-5R, AND STREET NAME SIGN S2 ON 45' MAST ARM. INSTALL TWO PEDESTRIAN SIGNAL HEADS, TWO PPB ASSEMBLIES WITH SIGN, AND ONE TERMINAL BOX ON SIGNAL POLE. INSTALL ONE LUMINAIRE ON A 16 FOOT LUMINAIRE ARM.

2. INSTALL NEW SIGNAL POLE FOUNDATION AND TYPE IIIA POLE. INSTALL THREE VEHICLE SIGNAL HEADS, ONE EMERGENCY VEHICLE PRE-EMPTION DETECTOR, SIGNS R3-8 AND R3-5R, AND STREET NAME SIGN S1 ON 45' MAST ARM. INSTALL TWO PEDESTRIAN SIGNAL HEADS, TWO PPB ASSEMBLIES WITH SIGN, AND ONE TERMINAL BOX ON SIGNAL POLE. INSTALL ONE LUMINAIRE ON A 16 FOOT LUMINAIRE ARM.

3. INSTALL NEW SIGNAL POLE FOUNDATION AND TYPE IIIA POLE. INSTALL TWO VEHICLE SIGNAL HEADS, ONE EMERGENCY VEHICLE PRE-EMPTION DETECTOR, TENONS FOR FUTURE USE, SIGN R10-12, AND STREET NAME SIGN S2 ON 40' MAST ARM. INSTALL TWO PEDESTRIAN SIGNAL HEADS, TWO PPB ASSEMBLIES WITH SIGN, AND ONE TERMINAL BOX ON SIGNAL POLE. INSTALL ONE LUMINAIRE ON A 12 FOOT LUMINAIRE ARM.

4. INSTALL NEW SIGNAL POLE FOUNDATION AND TYPE IIIA POLE. INSTALL TWO VEHICLE SIGNAL HEADS, ONE EMERGENCY VEHICLE PRE-EMPTION DETECTOR, AND STREET NAME SIGN S1 ON 50' MAST ARM. INSTALL TWO PEDESTRIAN SIGNAL HEADS, TWO PPB ASSEMBLIES WITH SIGN, AND ONE TERMINAL BOX ON SIGNAL POLE. INSTALL ONE LUMINAIRE ON A 16 FOOT LUMINAIRE ARM.

5. INSTALL NEW ELECTRICAL SERVICE CABINET.

6. INSTALL ONE NEW TYPE-P OUTDOOR TRAFFIC CONTROLLER ASSEMBLY AND FOUNDATION BEHIND SIDEWALK. CONSTRUCT FOUNDATION PER CITY OF REDMOND STANDARD DETAIL 410. CONTRACTOR TO POT-HOLE FOR EXISTING UTILITIES PRIOR TO INSTALLATION OF FOUNDATION.

7. RUN CONDUIT AND CABLE TO TRANSFORMER AND LEAVE SIX FEET OF SLACK FOR HOOK-UP. COORDINATE WITH PUGET SOUND ENERGY FOR ENTRY AND SERVICE CONNECTION TO TRANSFORMER.

8. INSTALL NEW INTERCONNECT CABLE THROUGH EXISTING JUNCTION BOXES AND 2" CONDUIT TO EXISTING SIGNAL CONTOLLER CABINETS LOCATED APPROXIMATELY 1500' SOUTH AT 156TH AVENUE NE/NE 40TH STREET AND APPROXIMATELY 1800' NORTH AT 156TH AVENUE NE/NE 51ST STREET.

9. EXISTING LUMINAIRE TO BE REMOVED. SEE LIGHTING PLAN.

10. INSTALL "NEW SIGNAL AHEAD" SIGN AND POST APPROXIMATELY 150' IN ADVANCE OF THE INTERSECTION. ENGINEER TO APPROVE FINAL LOCATION.

GENERAL NOTES:

1. NEW VEHICLE SIGNAL HEADS SHALL BE TYPE M MOUNTED ON MAST ARMS AND TYPE K MOUNTED ON SIGNAL POLES UNLESS OTHERWISE NOTED.

2. PEDESTRIAN PUSH BUTTONS SHALL BE TYPE PPB-1.

3. ALL NEW FOUNDATION LOCATIONS SHALL BE APPROVED BY THE ENGINEER, PRIOR TO EXCAVATION. CONTRACTOR SHALL CHECK FOR MINIMUM OVERHEAD CLEARANCE OF 16'-6" FOR ALL SIGNAL HEADS ABOVE THE STREET PRIOR TO POURING OF FOUNDATION.

4. THE LOCATION OF CONDUIT, JUNCTION BOXES, AND CABINETS SHOWN ON THIS PLAN ARE FOR GRAPHIC PRESENTATION ONLY. JUNCTION BOX AND CABINET LOCATIONS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

5. JUNCTION BOX AND CONDUIT LOCATIONS SHALL BE FIELD ADJUSTED IN ORDER TO PLACE PARALLEL CONDUITS IN ONE TRENCH.

6. LOOPS SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED.

7. TUNNEL VISORS SHALL BE USED FOR ALL VEHICLE SIGNAL HEADS. Z-CRATE VISORS SHALL BE USED FOR ALL PEDESTRIAN HEADS. ALL HEADS SHALL HAVE SQUARE DOORS.

8. ALL SIGNS TO BE 3M DIAMOND GRADE (VIP) SHEETING.

9. ALL CONDUCTORS FOR SIGNAL HEADS, LOOPS, PEDESTRIAN HEADS, PUSHBUTTONS AND STREETLIGHTS SHALL BE LABELED IN EACH JUNCTION BOX.

10. ALL TRAFFIC SIGNAL AND PEDESTRIAN HEADS AND PUSH BUTTONS SHALL BE SECURELY AND COMPLETELY COVERED WHILE NOT IN OPERATION.

SCALE IN FEET
0 20 40

SIGNAL PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		TYPE I JUNCTION BOX
		TYPE II JUNCTION BOX
		TYPE III JUNCTION BOX
		VEHICLE SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD
		EMERGENCY VEHICLE PRE-EMPT
		SIGNAL POLE WITH LUMINAIRE
		SIGN ON MAST ARM
		SIGNAL CONTROLLER
		ELECTRICAL SERVICE CABINET
		PEDESTRIAN HEAD STANDARD WITH PUSH BUTTON
		6' ROUND DETECTOR LOOP
		WIRE NOTE
		CONSTRUCTION NOTE
		SIGNAL POLE NUMBER
		RIGHT OF WAY LINE
		EASEMENT
		CONDUIT

THE EXISTING TOPOGRAPHIC AND PHYSICAL FEATURES SHOWN ON THESE PLANS ARE BASED ON A COMBINATION OF:

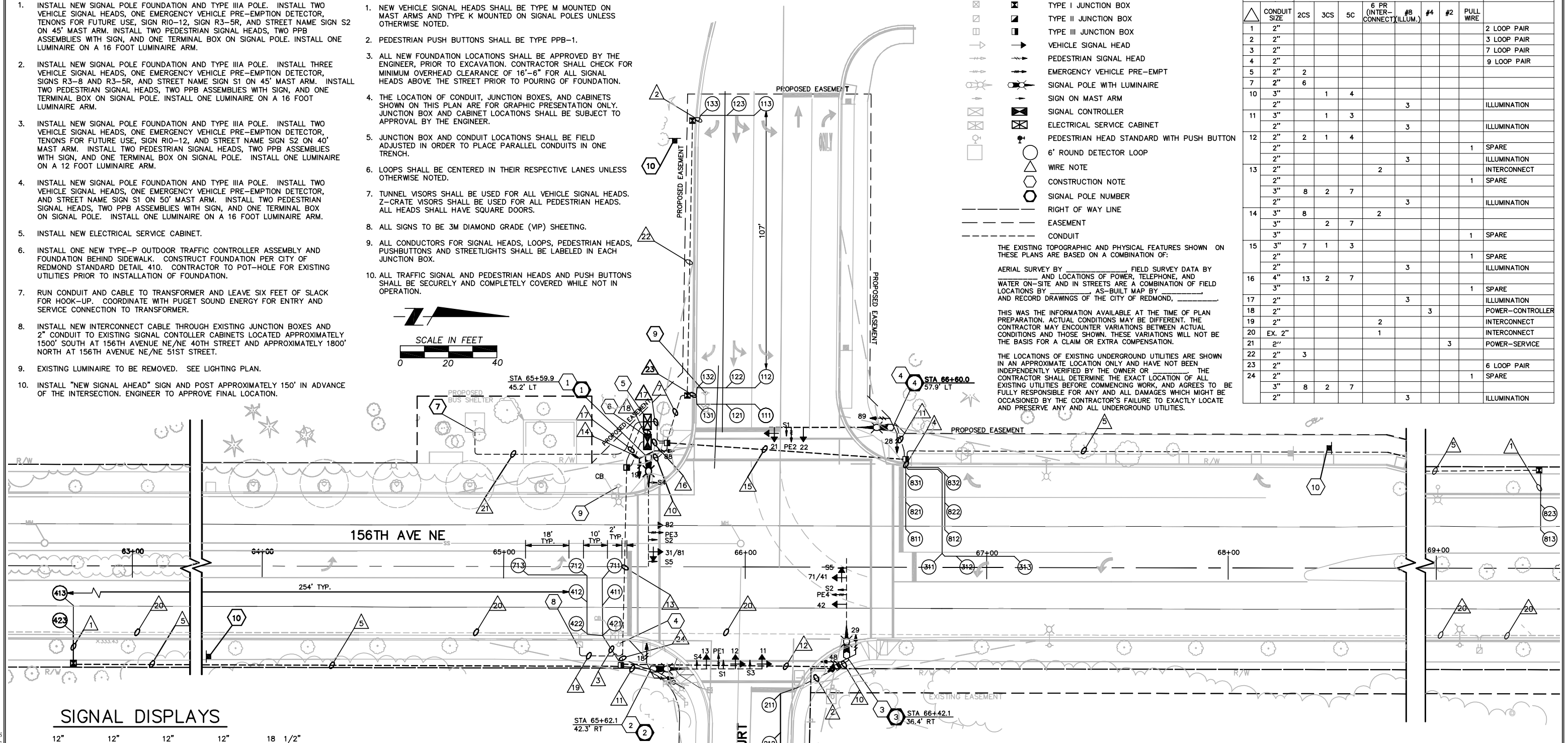
AERIAL SURVEY BY _____, FIELD SURVEY DATA BY _____ AND LOCATIONS OF POWER, TELEPHONE, AND WATER ON-SITE AND IN STREETS ARE A COMBINATION OF FIELD LOCATIONS BY _____, AS-BUILT MAP BY _____, AND RECORD DRAWINGS OF THE CITY OF REDMOND, _____.

THIS WAS THE INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. ACTUAL CONDITIONS MAY BE DIFFERENT. THE CONTRACTOR MAY ENCOUNTER VARIATIONS BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN. THESE VARIATIONS WILL NOT BE THE BASIS FOR A CLAIM OR EXTRA COMPENSATION.

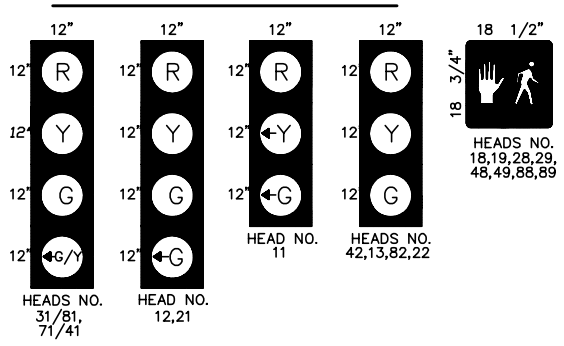
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE LOCATION ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR _____. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CONDUIT AND WIRING SCHEDULE

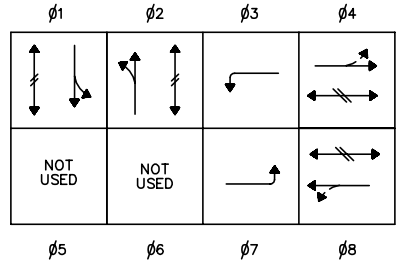
	CONDUIT	WIRE								REMARKS
	CONDUIT SIZE	2CS	3CS	5C	6 PR (INTER-CONNECT)	#8 (ILLUM.)	#4	#2	PULL WIRE	
1	2"									2 LOOP PAIR
2	2"									3 LOOP PAIR
3	2"									7 LOOP PAIR
4	2"									9 LOOP PAIR
5	2"	2								
7	2"	6								
10	3"		1	4						
	2"					3				ILLUMINATION
11	3"		1	3						
	2"					3				ILLUMINATION
12	2"	2	1	4						
	2"								1	SPARE
	2"					3				ILLUMINATION
13	2"				2					INTERCONNECT
	2"								1	SPARE
	3"	8	2	7						
	2"					3				ILLUMINATION
14	3"	8			2					
	3"		2	7						
	3"								1	SPARE
15	3"	7	1	3						
	2"								1	SPARE
	2"					3				ILLUMINATION
16	4"	13	2	7						
	3"								1	SPARE
17	2"					3				ILLUMINATION
18	2"						3			POWER-CONTROLLER
19	2"				2					INTERCONNECT
20	EX. 2"				1					INTERCONNECT
21	2"							3		POWER-SERVICE
22	2"	3								
23	2"									6 LOOP PAIR
24	2"								1	SPARE
	3"	8	2	7						
	2"					3				ILLUMINATION



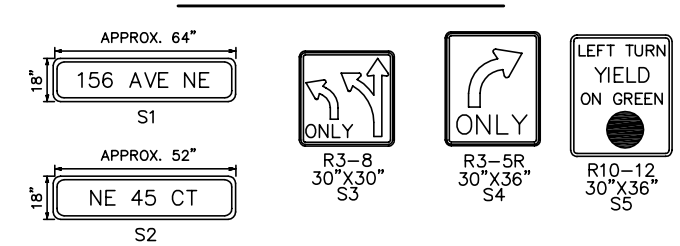
SIGNAL DISPLAYS



SIGNAL PHASE DIAGRAM



SIGNING LEGEND



APPROVED FOR CONSTRUCTION

For: Dave Rhodes
Director of Public Works
City of Redmond

Date: _____
Plan Check Engr: _____
Storm: _____
Utility: _____
Fire: _____
Transportation: _____
Planning: _____

This approval is for the design concept only. These plans appear to be in conformance with the City of Redmond design standards for construction. This approval shall not be construed as authorizing construction not in accordance with applicable City standards. The City reserves the right to require revisions to the approved plans to assure conformance with City of Redmond design standards for construction at any time that it is discovered that the proposed construction does not otherwise meet the applicable construction standards. The owner is required to provide designs and plans in accordance with applicable City standards and assures that construction is accomplished in accordance with those standards. The owner and/or design engineer and/or developer may be required to make necessary approved field revisions to correct any errors or omissions found on the approved plan.

"INSERT PE STAMP HERE"

NO.	DATE	BY	CKD.	REVISION

CITY OF REDMOND
15670 N.E. 85TH STREET
REDMOND, WASHINGTON 98052
PH. (425) 882-6462

"INSERT ENGINEERING FIRMS NAME HERE"

DESIGNED BY: **
DRAWN BY: BH
CHECKED BY: **
DATE: **

CITY OF REDMOND
156TH AVE NE / NE 45TH CT
SIGNAL PLAN

__**
PROJECT NO.

1 SHEET OF 3

IMAGES:
XREF'S:
FILENAME: 156-45 SIGNAL PLAN
DATE: 10/02/02